**IGCSE Chemistry electrolysis of copper(II) sulfate solution**

**Apparatus and chemicals**

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| * beaker (250 cm3) * graphite electrodes (about 5 mm diameter * 2  copper strips, * retort stand and clamp to hold electrodes * small pieces of emery paper | * DC power supply * light bulb (small, 6 volt, 5 watt) * leads and crocodile clips * aqueous copper(II) sulfate, 0.5 mol dm-3 * balance, ± 0.01g |

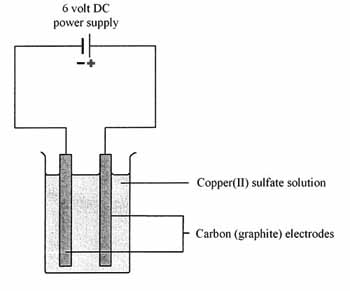
**Procedure**

HEALTH & SAFETY: Wear eye protection. Students must wash their hands at the end of all practical work.

**a** Set up the cell as shown. Watch for any activity on each of the electrodes, and write your

observations.

The cathodes can be cleaned using emery paper.



**b.** Repeat the experiment with two weighed copper strips. Leave the reaction to run for 3 minutes

and weigh each copper strip again. Record your results.